

## AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims in this application.

1. (Currently Amended) A method of monitoring a cellular call, comprising the steps of:
  - (a) remotely accessing a switch at a first location, the switch servicing one or more cellular sites in a cellular system;
  - (b) remotely placing the switch in a call monitor mode to monitor a mobile telephone;
  - (c) recording, at the switch, call information related to a cellular call being conducted by the mobile telephone;
  - (d) transmitting the call information to a second location;
  - (e) storing, at the second location, the call information as data in a standard file format; and
  - (f) displaying the data in a graphical format,  
wherein the call information includes position information for the mobile telephone;  
wherein displaying the data in a graphical format includes displaying call information for a serving cell site and neighboring cell sites, the displaying including displaying color coded markings indicative of received signal strength at the serving cell site and the neighboring cell sites.
2. (Original) The method of claim 1, further comprising receiving position information via a GPS receiver.
3. (Original) The method of claim 2, further comprising transmitting the position information over the cellular system.
4. (Currently Amended) The method of claim 1, wherein at least one of the steps (a), (b) and (c) remotely accessing, remotely placing and transmitting occurs over at least one of a hard wire and a wireless link.
5. (Currently Amended) The method of claim 1, wherein step (f) the displaying comprises the step of displaying at least one of call signal strength and bit error rate.

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6. (Currently Amended) The method of claim 1, wherein ~~step (f) the displaying~~ comprises the step of displaying a plot of signal strength and a plot of bit error rate.
7. (Original) The method of claim 1, wherein the graphical format includes a map.
8. (Currently Amended) The method of claim 1, further comprising ~~the step of~~ at least one of parsing, converting and scaling the call information to generate the data.
9. (Currently Amended) The method of claim 1, further comprising ~~the step of~~ displaying the identity of a serving cell site that is the cell site over which the cellular call is taking place.
10. (Original) The method of claim 1, further comprising displaying on a map a serving cell site and cell sites that neighbor the serving cell site.
11. (Currently Amended) The method of claim 1, further comprising ~~the step of~~ plotting a graph of the data and indicating when a call event has occurred.
12. (Withdrawn) The method of claim 1, further comprising the step of providing an audible indication of a call event.
- 13.- 22. (Cancelled)
23. (Currently Amended) A system for monitoring call performance in a cellular telephone system, comprising:
- (a) a cellular switch operable to be remotely placed in a call monitor mode, said switch further being capable of recording cellular system information upon being placed in the call monitor mode and subsequently downloading recorded cellular system information;
  - (b) a GPS receiver connected to a first mobile telephone via an interface unit; and

(e) a first computer including a display, the first computer being operable to (i) remotely access the switch, (ii) remotely place the switch in the call monitor mode, (iii) receive and store recorded cellular system information and GPS location information relative to the first mobile telephone and (iv) graphically display the call information in combination with the GPS location information;

wherein the graphical display includes call information for a serving cell site and neighboring cell sites, the display including color coded markings indicative of received signal strength at the serving cell site and the neighboring cell sites.

24. (Withdrawn) The system of claim 23, wherein the first mobile telephone is configured to be in an auto-answer mode.

25. (Withdrawn) The system of claim 23, further comprising a second mobile telephone and second computer each connected to the interface unit.

26. (Withdrawn) The system of claim 25, wherein the second computer records call parameter information available from the first mobile telephone.

27. (Withdrawn) The system of claim 25, wherein the second mobile telephone is configured to be in an auto-answer mode.

28. (Original) The system of claim 23, wherein the first computer is operable to display the cellular system information and GPS location information in real or near real time.

29. (Original) The system of claim 23, wherein at least one of the first and second computers is operable to perform at least one of parsing, converting and scaling the call information.

30. (Original) The system of claim 23, wherein the first computer is operable to graphically display at least one of signal strength, bit error rate and call events of a cellular call and a map including the location of the first mobile telephone.

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31. (Original) The system of claim 23, wherein the first computer is operable to simultaneously display the signal strengths of cell sites that neighbor a serving cell site.

32. (Withdrawn) The system of claim 23, wherein the first computer is operable to audibly indicate when a call event has occurred.

33. (New) The method of claim 1, wherein:

displaying the data comprises presenting a first graph illustrating the reverse and forward signal strengths associated with a mobile device and a serving cell site involved in the cellular call, the first graph further illustrating reverse signal strengths of at least two cell sites neighboring the serving cell site,

wherein displaying the data further comprises presenting a second graph, simultaneously, and in temporal alignment, with the first graph, illustrating bit error rate (BER) being experienced by the cellular call, and

wherein both the first and second graphs respectively illustrate at least one vertical line extending from a top to a bottom of the respective graph that is indicative of a call event that occurred with respect to the cellular call, the at least one vertical line illustrated on the first graph being horizontal registration with the vertical line on the second graph, whereby correlation between the first and second graphs, at least with respect to a call event, is facilitated.

34. (New) The method of claim 1, wherein:

the displaying includes displaying color coded markings indicative of received signal strength at the serving cell site and the neighboring cell sites in a split screen display along with a graph of signal strength versus time.

35. (New) The system of claim 23, wherein:

the display includes a first graph illustrating the reverse and forward signal strengths associated with a mobile device and a serving cell site involved in the cellular call, the first

graph further illustrating reverse signal strengths of at least two cell sites neighboring the serving cell site,

the display including a second graph, simultaneously, and in temporal alignment, with the first graph, illustrating bit error rate (BER) being experienced by the cellular call, and

wherein both the first and second graphs respectively illustrate at least one vertical line extending from a top to a bottom of the respective graph that is indicative of a call event that occurred with respect to the cellular call, the at least one vertical line illustrated on the first graph being horizontal registration with the vertical line on the second graph, whereby correlation between the first and second graphs, at least with respect to a call event, is facilitated.

36. (New) The system of claim 23, wherein:

the display includes color coded markings indicative of received signal strength at the serving cell site and the neighboring cell sites in a split screen display along with a graph of signal strength versus time.